

SR-V50

DIRECT DRIVE TURNTABLE

RADIO INTERFERENCE REGULATIONS

THIS APPARATUS HAS BEEN PRODUCED TO COMPLY WITH "DIRECTIVE No. 76/889/EEC."

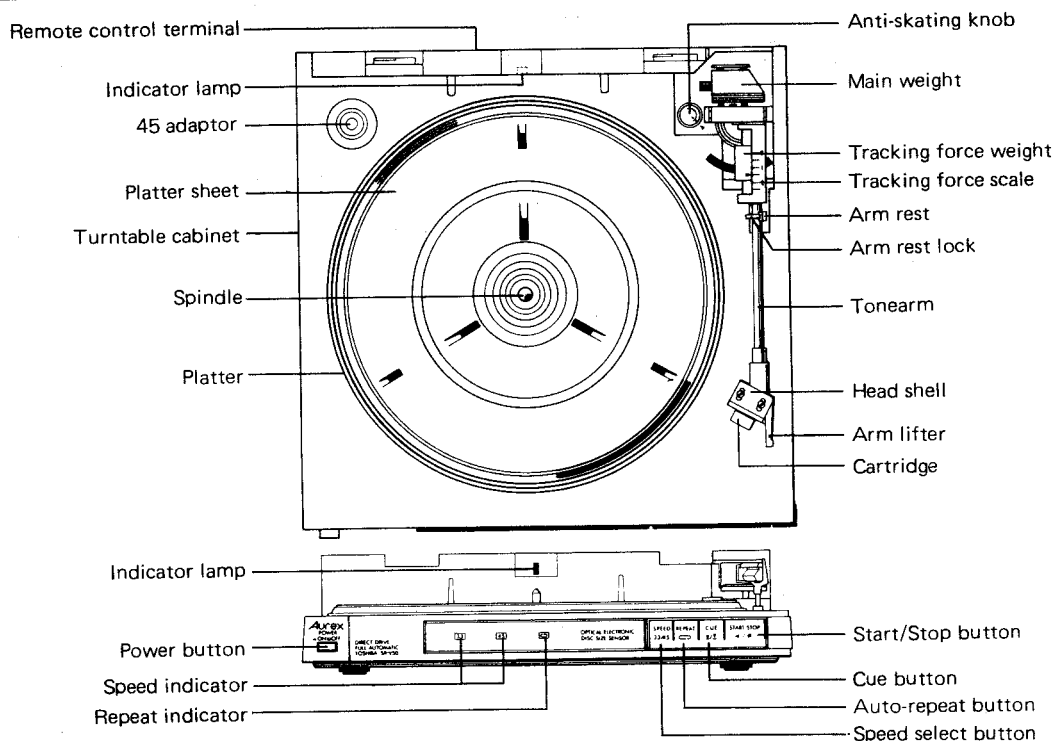
EXCLUSIVE NOTE FOR U.K.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code.
BLUE: NEUTRAL **BROWN: LIVE**

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter 'N' or coloured **BLACK**. The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter 'L' or coloured **RED**.

Layout of Turntable Controls



(Fig. 1)

Preliminary Preparations

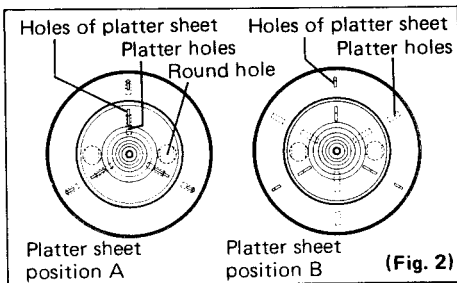
In order to protect your new turntable from damage during transportation, the platter and other heavy items have been packaged separately inside the packing carton. Unpack each item, and assemble the turntable in strict accordance to the following procedure. Do not plug the turntable into a mains socket until you have finished assembling it.

■ Unpacking

- (1) First take out the platter and platter sheet.
- (2) Then carefully remove the main turntable unit, main weight, connecting cord for remote control and 45 adaptor, and unwrap them from the packing material. (Main weight, connecting cord for remote control and 45 adaptor are packed in cushion.)
- (3) Remove the tape securing the tonearm to the arm rest.

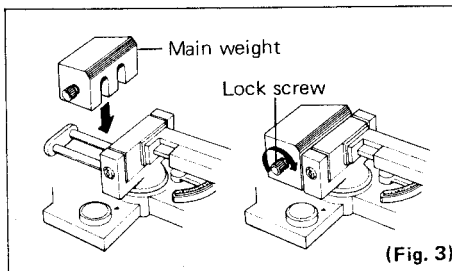
■ Turntable Assembly

- (1) Carefully mount the platter onto the spindle.
- (2) Mount the platter sheet as per "platter sheet position A" in Fig. 2. Then, at the position where the two round holes of the platter coincide with the convex portions of the platter sheet, check and ascertain that the six holes of the platter sheet coincide with the six platter holes.



(Fig. 2)

- (3) Insert the separately packed main weight from above. Then, tighten the lock screw of the main weight. (Fig. 3)



(Fig. 3)

- (4) Make the appropriate tracking force adjustment (see page 2). This is an important adjustment which should not be overlooked.
- (5) Plug in the power cord. (Refer to the section on connections.)

CAUTION

The holes on the platter are used for removing the platter. Do not insert fingers and turn it, since you may get injured.

■ Installation

It is highly recommended that the turntable be placed on a firm, level surface (such as desk or bookshelf) safe from external vibrations (caused by the speakers, or nearby footsteps). The ideal position would be a place as far away as possible from the speakers, but also protected from direct sunlight, heaters and other heat generating appliances, dust, and high humidity (or dampness).

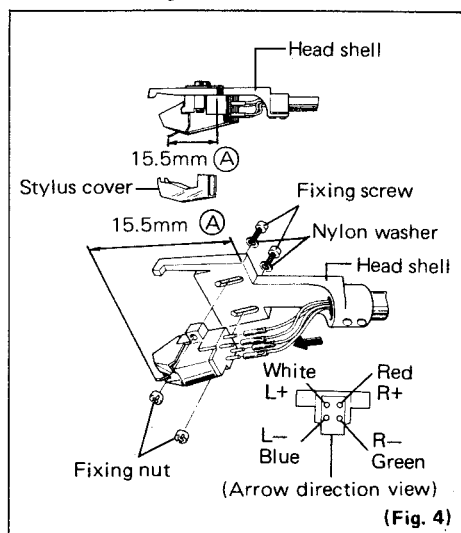
The auto-size/speed select functions and facilities are hampered in strong light as the direct sunlight or spotlight.

■ How to Mount the Cartridge

- (1) Remove the cartridge removing the fixing screws and nuts.
 - (2) Set your cartridge in the head shell. The head shell lead wire colours are shown in Fig. 4. It is of the utmost importance that correct cartridge leads connection is made.
 - (3) When fitting the cartridge in the head shell, be sure to perform overhang adjustment after tightening the cartridge slightly with the fixing screws and nuts.
- * When you put a new cartridge to head shell or replace it with another type, you must adjust tracking force. (Refer to Tracking Force Adjustment on page 2.)

Overhang Adjustment

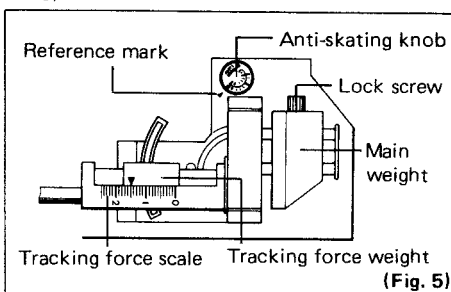
When replacing a cartridge, it will be necessary to adjust for overhang. As has been indicated in Fig. 4 the distance from the stylus tip to the point A is exactly 15.5mm. Adjust this distance by means of the screws and nuts which hold the cartridge in place in the head shell.



Tracking Force Adjustment

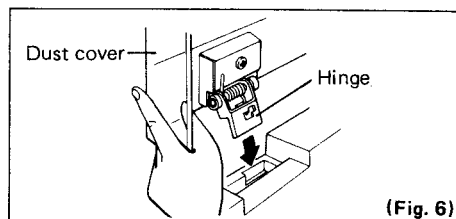
(Note: This adjustment is important)
If the turntable has already been connected to an amplifier, be sure to switch the amplifier's power supply off before commencing this adjustment.

- (1) First remove the stylus cover.
- (2) Set the anti-skating knob to read "0".
- (3) Adjust the "▼" mark on the tracking force weight to "0" position of the tracking force scale, with the tracking force weight sliding.
- (4) Loosen the lock screw of the main weight and effect balance by adjusting the arm which moves the main weight forwards and backwards, until it comes to an horizontal position. Upon arriving at this horizontal position, tighten the lock screw.
- (5) Next slide the tracking force weight so that the scale reading corresponds with the tracking force rating specified for your cartridge. (must be 1.5 ~ 2.0 gf).
[Stylus force is expressed in grammes force. (gf; 1 gf = 10mN)]
- (6) Return the tonearm to the arm rest.
- (7) Also adjust the anti-skating knob to the same value as the tracking force.



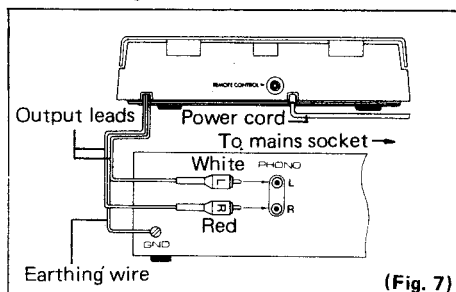
Dust Cover Attachment and Removal

The dust cover is very easy to attach and remove again. Simply hold the dust cover up-right and lower into the hinges. It is always advisable to hold the dust cover near the hinge pieces for this task. (Fig. 6)



Connecting Up to Amplifier

Connect the output leads, and earthing wire to your amplifier as illustrated in Fig. 7. Connect the power cord to the mains socket. Check that the L and R output leads are properly connected to the L and R PHONO terminals of the amplifier. (Fig. 7)

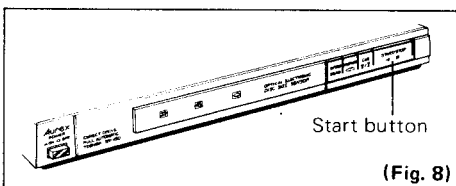


Turntable Operation

This model is fully automatic turntable featuring a comprehensive auto-size, auto-speed select and auto-repeat function. Manual operation is also available.
Read the following instructions carefully in order to ensure optimum performance.

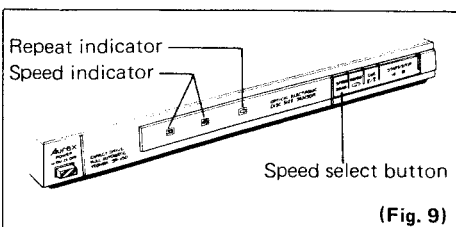
Auto-Start Operation

- (1) Check that the stylus cover has been removed.
- (2) Push in the power button, and the indicator lamp will turn on.
- (3) Place your record on the platter.
- (4) Release the arm rest lock, then gently push the start button (Fig. 8).



The tonearm will automatically rise, move across and lower onto the record to commence play.

The auto-size/speed select faculty selects the speed for the record on the platter automatically as 33 rpm for 30 cm record and 45 rpm for 17 cm record. When playing 30 cm/45 rpm or 17 cm/33 rpm records, push the speed select button to change speed. The selected speed is indicated by the indicator at the left side of the speed select button. (Fig. 9)



- (5) At the end of the record, the tonearm will automatically rise, and return to the arm rest and the platter come to a stop.
(Due to the platter's inertia, it will not stop immediately, but continue to rotate freely for a short while.)
- (6) Push and release the power button.

CAUTION

- (1) Exposure to direct rays of the sun or strong light sometimes makes automatic playing impossible. In such cases, take measures to shade it from strong light rays.
- (2) While the platter will rotate when no records are on top of the platter, however, because the arm does not shift inwards, the rotation of the platter will, after some time, stop.
- (3) Touching the rotating platter and the arm which is in motion cause erroneous movements and breakdowns. Therefore, never touch them.
- (4) 25 cm record disc cannot be played automatically. Therefore, do so manually.
- (5) Do not use platter sheets other than attached. Also, mount the six holes of the platter sheet accurately and precisely over the holes of the platter. (Vide the "platter sheet position A" in Fig. 2)
- (6) Using a light sensor for record size detection may cause the fact that those translucent records of 30 cm diameter that are colored red, white other than black cannot be played automatically when pressing the start button. In this event, put a platter sheet at the "position B" shown in Fig. 2.
- (7) When the platter sheet is placed in "position B" and the start button is suppressed, force descends upon the position of the 30 cm record. Therefore, be careful and cautious when either no record or when a 17 cm record is mounted thereon.

Auto-Repeat Operation

This turntable has a convenient auto-repeat feature that allows records to be played automatically over and over again.

- (1) When the auto-repeat button is suppressed, the repeat position comes into play. (The repeat indicator lights up).
When the record playing is completed, the arm returns to the tonearm rest and, automatically, playing is repeated from the beginning. This is repeated over and over again. (The tonearm rises and during the time interval until the record is replayed the repeat indicator keeps on flashing.)
- (2) When you want to end repeat operation, push the auto-repeat button, the repeat indicator turns off, at the end of the record the tonearm will return automatically to the arm rest and the platter will stop rotating.

Auto-Stop Operation

To stop record play before the end of the record, simply push the stop button. The tonearm will return to the arm rest immediately, and the platter comes to a stop. Or return the tonearm manually to the arm rest.

Manual Operation

For manual play and performance, adopt the following procedure.

- (1) Set the speed of the playing record while observing the indicators. (Fig. 9)
- (2) When the repeat indicator has been lit up, push the auto-repeat button and release the repeat function.
- (3) Lift the tonearm by the arm lifter and move across to the record. The platter will commence to rotate immediately. When using the cue button to lower the tonearm onto the record, first push the cue button and lift up the tonearm.

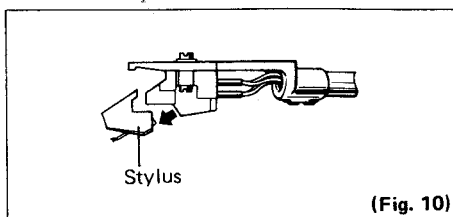
- (4) Carefully lower the stylus onto the record at the desired track. When using the cue button, gently push the cue button.
- (5) At the end of the record, the tonearm will return to the arm rest automatically, and the platter come to a stop.
- (6) Push and release the power button.

■ Temporary Interruption of a Record Play

To temporarily interrupt to play, or to change directly to another track, push the cue button. The tonearm will be lift up and remain there until it is moved across to another desired track. To recommence play, push the cue button. The stylus will lower gently onto the record surface automatically.

■ Stylus Replacement

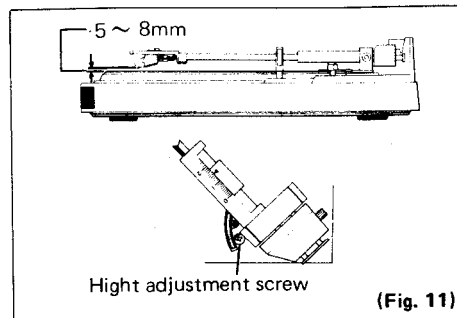
After about 300 hours of use, change the stylus. Pull the stylus to the direction of the arrow. Place a new stylus on the cartridge. (Fig. 10)



■ Stylus Height Adjustment

The distance between stylus tip and record surface when the tonearm is in up position, is adjusted by means of the height adjustment screw on the tonearm pivot (this task will require a plus screwdriver).

- Turning in the clockwise direction will lower the stylus.
- Turning in the counterclockwise direction will raise the stylus.



■ Remote Control

As this remote control terminal is designed for Toshiba's preamplifier cassette deck PD-V30/V50, using of other remote control amplifier makes malfunction and/or damage to this turntable. For using PD-V30/V50, see it's owner's manual.

General Precautions

1. Keeping the stylus tip clean:

Dust accumulating on the tip of the stylus can lead to groove jumping, distortion of the sound, and early wearing of both record and stylus. Keep the tip of the stylus clean with a soft-hair brush, carefully stroking from the rear forwards.

2. When the auto-size/speed select function becomes unstable, remove the platter and wipe the transparent plastic parts below the platter with soft brush.

3. Howling:

When the volume control and bass tone control are turned up high during play, an unusual "howling" noise may occur. This is caused by vibrations or sound pressure waves transmitted via the floor or

air back to the turntable cartridge. This may be prevented by the following means:—

- Position the turntable on a firm basis as far away from the speakers as possible (at least 50 cm).
- Check that the tone controls are not turned to extreme positions.
- Turn the amplifier's low filter on.
- Keep the dust cover closed during play.

4. If the turntable is not to be used for some time:

Apply the arm rest lock to secure the tonearm, and attach the stylus cover.

5. Lubrication:

This turntable has been designed with oil-less type bearings, and thus do not require lubricating.

6. When re-transporting your turntable:

Using the same packaging material in which this turntable was packed when purchased, repack all items in the reverse order. If the same packaging material is no longer available, use soft wrapping paper or a woolen blanket, taking care not to scratch any of the parts.

1. Remove the platter and platter sheet, and wrap up together.
2. Lock the tonearm into position, and secure with cord or ribbon.
3. Remove the main weight, and wrap up separately.
4. Wrap the cabinet in a blanket, or soft wrapping paper to ensure against scratches.

Specifications

Drive system:	Direct drive
Motor type:	Three-phase 20 poles DC servo motor
Turntable speeds:	33-1/3 and 45 rpm
Platter:	293 mm aluminum diecast
Tonearm:	Static balanced straight pipe tonearm
	Effective length: 211 mm
	Overhang: 16 mm
	Tracking error: $-2^{\circ} \sim +2^{\circ}$
	Tracking force adjustment (direct-read scale)
	Anti-skating mechanism (direct-read scale co-ordinated with tracking force)
	Net weight range of replaceable cartridges 3 ~ 6.5 gf
Cartridge:	Moving magnet (MM) C-51M
	Output voltage: 0.6 mV/cm/sec.
	Frequency response: 20 — 22,000 Hz
	Channel balance (1 kHz): < 1 dB
	Crosstalk (1 kHz): > 20 dB
	Load resistance: 47K — 100K ohm
	Stylus tip: 15 μ m diamond-tipped spherical stylus
	Dynamic compliance (lateral): 8 mm/N
	Tracking force: 1.75 $\pm$ 0.25 gf
	Stylus replacement: N-51D

Wow and flutter:	DIN: less than 0.045% (zero to peak)
	WRMS: less than 0.03%
Rumble:	DIN A: lower than -43 dB
	DIN B: lower than -73 dB
Mains voltage and frequency:	AC 220V ~ 50 Hz (For Europe)
	AC 240V ~ 50 Hz (For U.K. and Australia)
Power consumption:	Max. 9W
Major dimensions:	with cover closed 340(W) x 95(H) x 340(D) mm
	with cover fully opened 340(W) x 415(H) x 347(D) mm
Weight:	Approx. 4.8 kg
Features:	Full automatic mechanisms (auto-size/speed select, auto-start, auto-stop, auto-return, auto-repeat, manual), cueing, remote control, detachable free-stop dust cover.
Accessory:	45 rpm adaptor
	Connecting cord for remote control

* Specifications and dimensions are subject to alteration without notice.

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